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Ultra-High Temperature Ceramics: Materials For Extreme Environmental Applications II

Proceedings

Spring 5-14-2012

Poster 4. Microstructure and mechanical properties of ZrB2-Nb composites

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Microstructure and mechanical properties of ZrB_2-Nb composite

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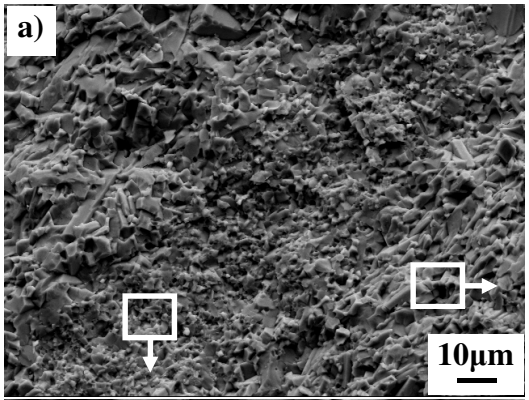
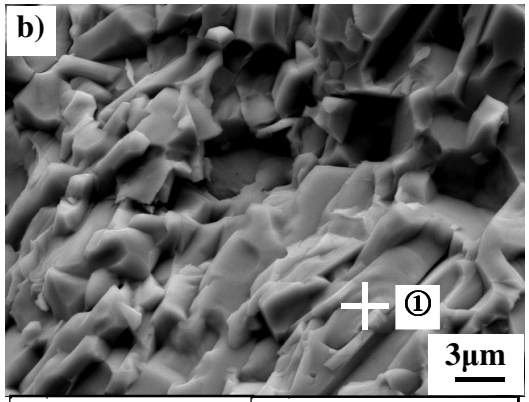
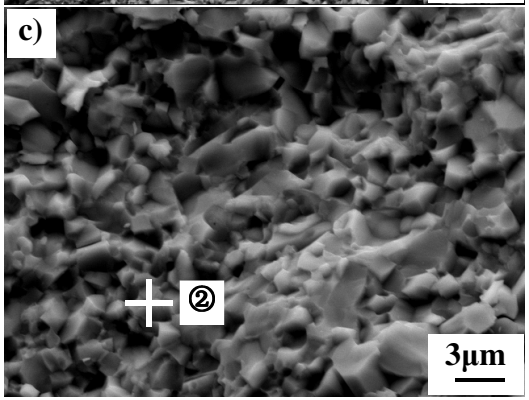
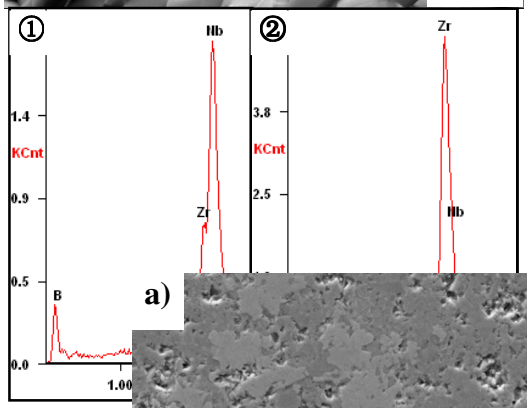
ZrB_2-Nb (ZN) composites were prepared by hot-pressing at 1800 °C for 60min. The effects of Nb content on densification, microstructure and mechanical properties of ZN composites were investigated.

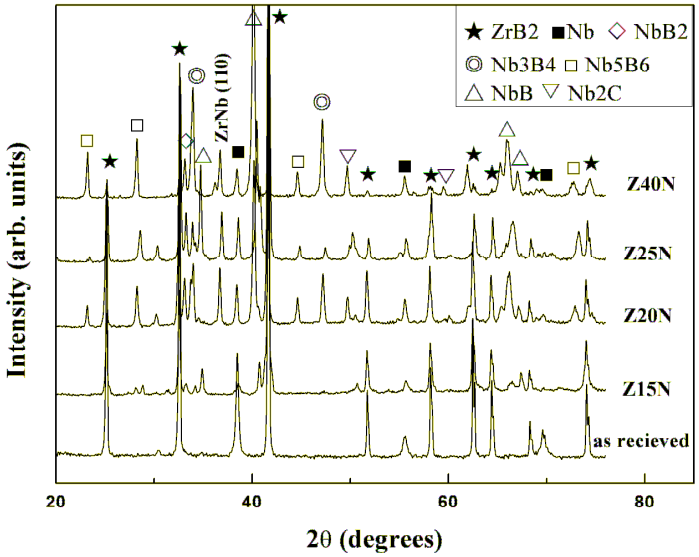
Results and discussion

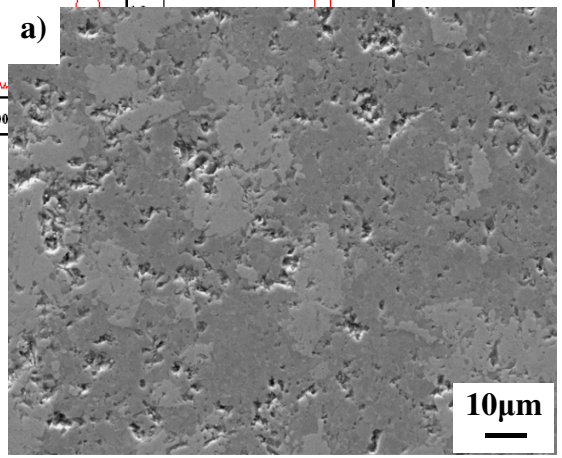


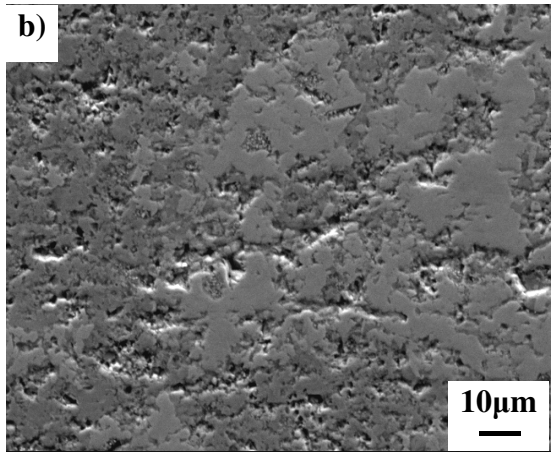




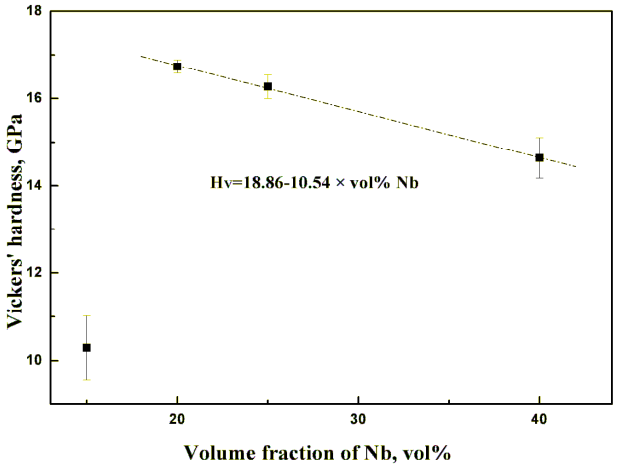


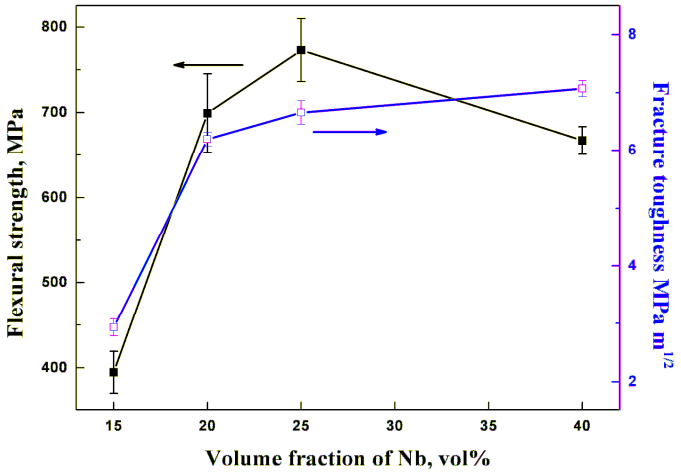


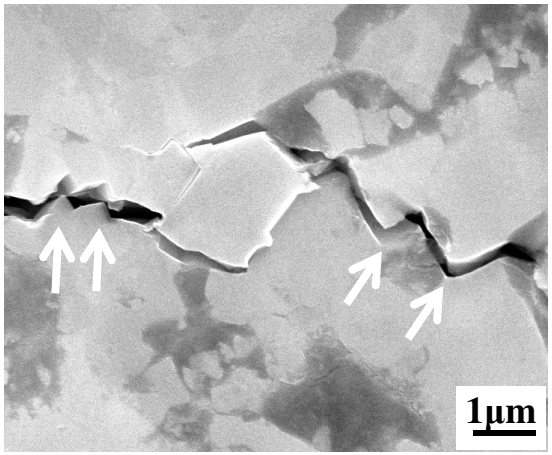




Results and discussion







Ductile Nb deformation absorbs and dissipates a part of energy of crack initiation and propagation, leads to the improvement of fracture toughness.